DV380H-N.CUSALZK_0960_ENG 4/7/08 9:09 AM Page 1

Installation and Operating Guide | Warranty

Model Number | DVB812 | **DVD Player**

zenith

For service/
support Call:
Toll Free Number
1-877-9-ZENITH
(http://www.zenithservice.com)

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P/No. : MFL41090960

Introduction

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

WARNING: Do not install this equipment in a confined space such a bookcase or similar unit.

CAUTION: Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating.
The openings should be never be blocked by placing the product on a bed, sofa, rug or other similar surface.This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instruction have been adhered to.

CAUTION: The apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.

CAUTION concerning the Power Cord

Most appliances recommend they be placed upon a dedicated circuit;
That is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain.

Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized servicer.

Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance.

To disconnect power from the unit, pull out the units power cord from the outlet. When installing the product, ensure that the plug is easily accessible.

FCC WARNING: This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

REGULATORY INFORMATION: FCC Part 15

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the product is operated in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the product and receiver.
- Connect the product into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION:

DO NOT ATTEMPT TO MODIFY THIS PRODUCT IN ANY WAY WITHOUT WRITTEN AUTHORIZATION FROM LG ELECTRONICS CORPORATION. UNAUTHORIZED MODIFICATION COULD VOID THE USER'S AUTHORITY TO OPERATE THIS PRODUCT.
THIS EQUIPMENT IS INTENDED TO RECEIVE AND DECODE SIGNALS TRANSMITTED ACCORDING TO ATSC DIGITAL TELEVISION STANDARD A/53, SPECIFICATION AND IS INTENDED TO BE USED WITH AN APPROPRIATE ANTENNA AND DISPLAY DEVICE THAT YOU MUST PROVIDE.

FCC COMPLIANCE: The responsible party for this product's compliance is:

Marketed and Distributed by LG Electronics U.S.A., Inc.,
1000 Sylvan Avenue, Englewood Cliffs, NJ.
Phone: 1-201-816-2000.

Zenith-brand consumer electronics products are marketed by LG Electronics USA, Inc.

IMPORTANT SAFETY INSTRUCTIONS

CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS OWNER'S MANUAL. AND THOSE MARKED ON THE PRODUCT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

This product has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this product will protect you if you observe the following procedures for installation, use, and servicing.
This product does not contain any parts that can be repaired by the user.

DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

1. **Read these instructions. -** All these safety and operating instructions should be read before the product is operated.
2. **Keep these instructions. -** The safety, operating and use instructions should be retained for future reference.
3. **Heed all warnings. -** All warnings on the product and in the operating instructions should be adhered to.
4. **Follow all instructions. -** All operating and use instructions should be followed.
5. **Do not use this apparatus near water. –** For example: near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement; or near a swimming pool; and other areas located near water.
6. **Clean only with dry cloth. –** Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners.
7. **Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. -** Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over- heating. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
8. **Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.**
9. **Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.**
10. **Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.**
11. **Only use attachments/accessories specified by the manufacturer.**
12. **Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with apparatus. When a cart is used, use caution when moving the cart/product combination to avoid injury from tip-over.**

13. **Unplug this apparatus during lightning storms or when unused for long periods of time.**
14. **Refer all servicing to qualified service personnel. Servicing is required when the product has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the product has been exposed to rain or moisture, does not operate normally, or has been dropped.**

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Types of Playable Discs

Type	Logo
DVD-VIDEO: Discs such as movies that can be purchased or rented.	DVD VIDEO
DVD-RW: VR mode, Video mode and finalized only	DVD RW
Audio CD: Music CDs or CD-R/CD-RW in music CD format that can be purchased.	COMPACT disc DIGITAL AUDIO

This unit plays DVD±R/RW and CD-R/RW that contains audio titles, MP3, WMA and/or JPEG files. Some DVD±RW/DVD±R or CD-RW/CD-R cannot be played on this unit due to the recording quality or physical condition of the disc, or the characteristics of the recording device and authoring software.

About the ⦸ Symbol Display

" ⦸ " may appear on your TV display during operation and indicates that the function explained in this owner's manual is not available on that disc.

Regional Codes

This unit has a regional code printed on the rear of the unit. This unit can play only DVD discs labelled same as the rear of the unit or "ALL".

- Most DVD discs have a globe with one or more numbers in it clearly visible on the cover. This number must match your unit's regional code or the disc cannot play.
- If you try to play a DVD with a different regional code from your player, the message "Check Regional Code" appears on the TV screen.

Copyrights

It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyrighted material without permission. This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs. When recording and playing the pictures of these discs picture noise will appear. This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p UNIT, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.

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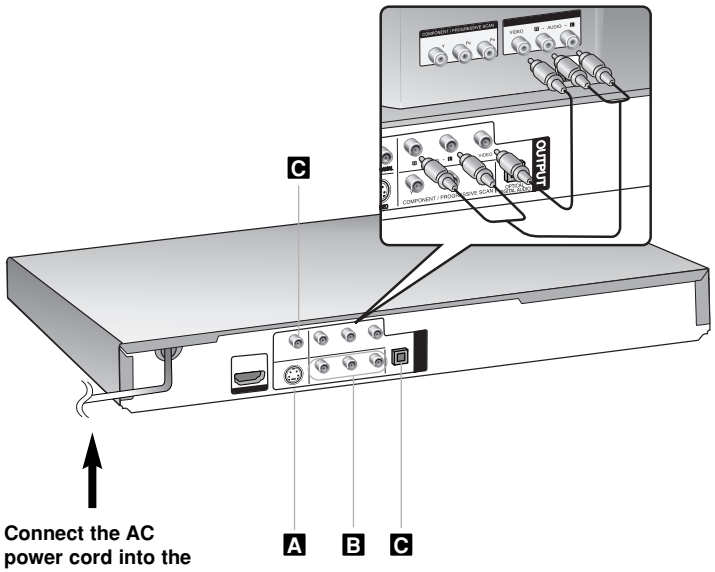
HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI licensing LLC.

Hooking up the unit

Audio and Video Connection

The unit Audio/Video jacks are color coded (yellow for video, red for right audio and white for left audio). If your TV has only one input for audio (mono), connect it to the left (white) audio jack on the unit.



Connect the AC power cord into the power outlet.

Hooking up the unit - more you can do

A S-Video connection

Connect the S-VIDEO OUTPUT jack on the unit to the corresponding input jacks on your TV using a S-Video cable.
You will still need to connect the left and right audio cables to the TV, or digital audio cable to your stereo.

B Component Video Connections

Connect the COMPONENT/PROGRESSIVE SCAN OUTPUT jacks on the unit to the corresponding input jacks on your TV using a YPbPr cable.

- You will still need to connect the left and right audio cables to the TV, or digital audio cable to your stereo.

Resolution Setting

- You can change the resolution for component video output. Press RESOLUTION repeatedly to select the desired resolution - 480i, 480p, 720p, 1080i, 1080p.
- For 720p and 1080p resolution on the component video output, only non-copy protected discs can be played back. If the disc is copy proteced,it will be displayed at the 480p resolution.
- Depending on your TV, some of the resolution settings may result in the picture disappearing or an abnormal picture appearing. In this case, press RESOLUTION repeatedly until the picture re-appears.

C Digital Audio Output Connection

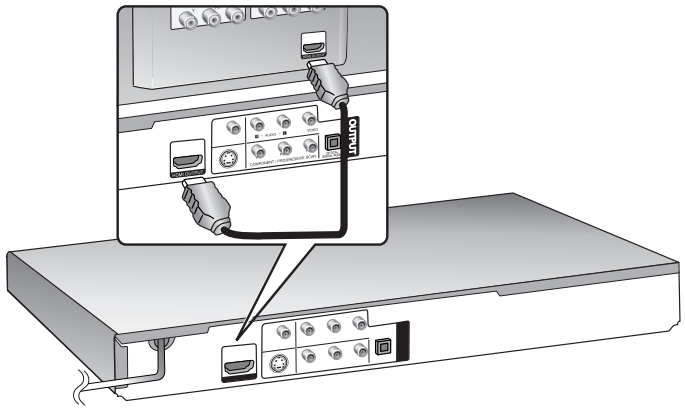
Connect one of the unit's DIGITAL AUDIO OUTPUT (OPTICAL or COAXIAL) jacks to the corresponding jack on your amplifier.

- If the audio format of the digital output does not match the capabilities of your amplifier, the amplifier will produce a strong, distorted sound or no sound at all.
- To see the audio format of the current disc in the on-screen display, press AUDIO.
- This unit does not perform internal (2 channel) decoding of a DTS sound track. To enjoy DTS multi channel surround, you must connect this unit to a DTS compatible amplifier via one of this unit's digital audio outputs

Hooking up the unit

HDMI Connection

Connect the HDMI OUTPUT jack on the unit to the HDMI input jack on an HDMI compatible TV using an HDMI cable.



Hooking up the unit - more you can do

Resolution Setting

You can change the resolution for HDMI output. Press RESOLUTION repeatedly to select the desired resolution - 480i, 480p, 720p, 1080i, 1080p.

Note for 1080p resolution

The unit is able to provide a 1080p full HD image to most 1080p-capable TVs in the market today. However, there are some 1080p TVs available from certain companies that are limited in the types of 1080p images that can be accepted. Specifically, 1080p-capable TVs that don't accept images in 60Hz can't display an image from this unit.

About HDMI

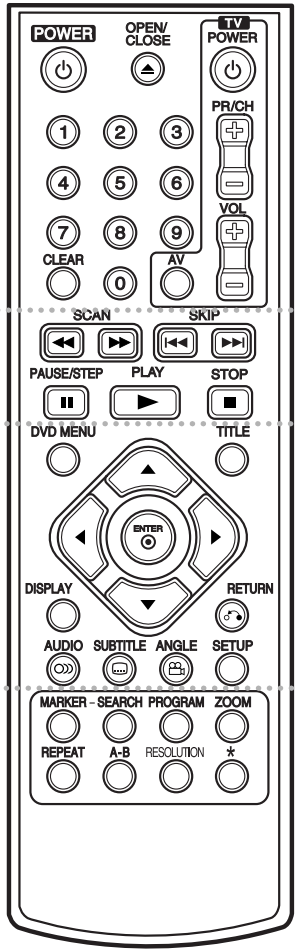
HDMI (High Definition Multimedia Interface) supports both video and audio on a single digital connection for use with DVD Players, Set-Top Boxes, and other AV devices. HDMI was developed to provide the technologies of HDCP (High-bandwidth Digital Content Protection). HDCP is used to protect digital content transmitted and received.

HDMI has the capability to support standard, enhanced or high-definition video plus standard to multi-channel surround-sound audio, HDMI features include uncompressed digital video, a bandwidth of up to 5 gigabytes per second, one connector (instead of several cables and connectors), and communication between the AV source and AV devices such as DTVs.

Notes on HDMI connection

- If your TV is not capable of handling 96 kHz sampling frequency, set the [Sampling Freq.] option to [48 kHz] on the setup menu (See page 9).
- If your TV is not equipped with Dolby Digital and MPEG decoder, set the [Dolby Digital and [MPEG] options to [PCM] on the setup menu (See page 9).
- Depending on your TV, some of the resolution settings may result in the picture disappearing or an abnormal picture appearing. In this case, press RESOLUTION repeatedly unit the picture re-appears.
- Changing the resolution when the unit is connected with HDMI connector may result in malfunctions. To solve the problem, turn off the unit and then turn it on again.
- When you connect a HDMI or DVI compatible device make sure of the following:
  - Try switching off the HDMI/DVI device and this unit. Next, switch on the HDMI/DVI device and leave it for around 30 seconds, then switch on this unit.
  - The connected device's video input is set correctly for this unit.
  - The connected device is compatible with 720X480i, 720X480p, 1280X720p, 1920X1080i or 1920X1080p video input.
  - The 1080p, 720p and 480p resolutions are the progressive scan applied resolution
- Not all HDCP-compatible DVI devices will work with this unit.
  - The picture will not be displayed properly with non-HDCP device.

Remote control



1

POWER (⏻) : Switches the unit ON or OFF.
OPEN/CLOSE (⏏) : Opens and closes the disc tray.
Numerical buttons : Selects numbered items in a menu.
CLEAR : Removes a track number on the Program List or a mark on the Marker Search menu.
TV : TV control buttons.

2

SCAN (◀◀ / ▶▶) : Search backward or forward.
SKIP (I◀◀ / ▶▶I) : Go to next or previous chapter/track.
PAUSE/STEP (❚❚) : Pauses playback temporarily/press repeatedly for frame-by-frame playback.
PLAY (►) : Starts playback.
STOP (■) : Stops playback.

3

DVD MENU : Access the DVD menu.
TITLE : Access the disc's title menu, if available.
▲▼ ◀ ▶ : Navigates the menus.
ENTER (⊙) : Confirms menu selection.
DISPLAY : Accesses On-Screen Display.
RETURN (↶) : Press to move backwards in the menu or exit the menu.
AUDIO (◌) : Selects an audio language or audio channel.
SUBTITLE (▭) : Selects a subtitle language.
ANGLE (🎬) : Selects a DVD camera angle, if available.
SETUP : Accesses or exits the setup menu.

4

MARKER : Marks any point during playback.
SEARCH : Displays MARKER SEARCH menu.
PROGRAM : Enters the program edit mode.
ZOOM : Enlarges video image.
REPEAT : Repeats a chapter, track, title or all.
A-B : Repeats a section.
RESOLUTION : Sets the output resolution for HDMI jack.
✱ : Button is not available.

Controlling other TV's with the remote control

You can control the sound level, input source, and power switch of your LG TV with the supplied remote control. While holding down TV POWER button, press the number buttons to select the manufacturer code for your TV (see the table below). Release TV POWER button.

Code numbers of controllable TVs

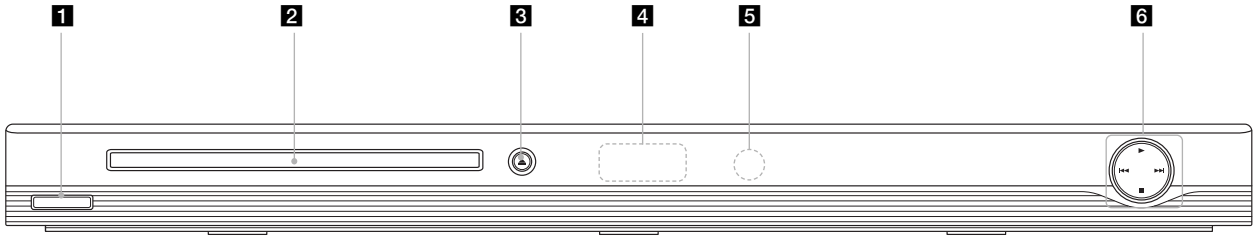
If more than one code number is listed, try entering them one at a time until you find the one that works with your TV. Depending on your TV, some or all buttons may not function on the TV, after entering the correct manufacturer code.

Manufacturer	Code Number
LG/GoldStar	1 (Default), 2
Zenith	1, 3, 4
Samsung	6, 7
Sony	8, 9
Hitachi	4

Put the battery into the Remote Control

Remove the battery cover on the rear of Remote Control, and insert battery (size AAA) with + and – matched correctly.

Main Unit



1 ⏻/I **(Power)**
Turn the unit ON or OFF.

2 **Disc Tray**
Insert a disc here.

3 ⏏ **(Open / Close)**
Opens or closes the disc tray.

4 **Display window**
Shows the current status of the unit.

5 **Remote sensor**
Point the remote control here.

6 • ► **(Play)**
Starts playback.

• ■ **(Stop)**
Stops playback.

• I◄◄ **(Skip)**
Returns to the beginning of current chapter or track or go to the previous chapter or track.

• ►►I **(Skip)**
Go to next chapter or track.

Adjust the settings

	ON REMOTE
1 Display setup menu:	SETUP
2 Select a desired option on the first level:	▲▼
3 Move to second level:	►
4 Select a desired option on the second level:	▲▼
5 Move to third level:	►
6 Change the setting:	▲▼ / ENTER

Adjust the settings - more you can do

When you turn on for the first time

The menu for a language selection will appear when you turn on the unit for the first time. You must select a language to use the unit. Use ▲▼ ◄ ► to select a language then press **ENTER** and the confirm menu will appear. Use ◄ ► to select [Enter] then press **ENTER**.

Adjust the language settings

Menu Language – Select a language for the Setup menu and on-screen display.

Disc Audio/**Subtitle**/**Menu –** Select a language for the Disc Audio/Subtitle/Menu.

[Original]: Refers to the original language in which the disc was recorded.
[Other]: To select another language, press number buttons then **ENTER** to enter the corresponding 4-digit number according to the language code list. (see page 14) If you make a mistake while entering number, press **CLEAR** to delete numbers then correct it.
[Off] (for Disc Subtitle): Turn off Subtitle.

Adjust the display settings

TV Aspect – Select which screen aspect to use based on the shape of your TV screen.

[4:3]: Select when a standard 4:3 TV is connected.
[16:9]: Select when a 16:9 wide TV is connected.

Display Mode – If you selected 4:3, you'll need to define how you would like widescreen programs and films to be displayed on your TV screen.

[Letterbox]: This displays a widescreen picture with black bands at the top and bottom of the screen.
[Panscan]: This fills the entire 4:3 screen, cropping the picture as necessary.

Adjust the audio settings

Dolby Digital / **DTS** / **MPEG –** Selects the type of digital audio signal when using the DIGITAL AUDIO OUTPUT jack.

[Bitstream]: Select this when you connect this unit's DIGITAL AUDIO OUTPUT jack to an amplifier with a built-in Dolby Digital, DTS or MPEG decoder.
[PCM] (for Dolby Digital / MPEG): Select this when you connect this unit's DIGITAL AUDIO OUTPUT jack to an amplifier without a built-in Dolby Digital or MPEG decoder.

[Off] (for DTS): Select this when you connect this unit's DIGITAL AUDIO OUTPUT jack to an amplifier without a built-in DTS decoder.

Sample Freq. (Frequency) – Selects the sampling frequency of the audio signal.

[48 KHz]: The audio signals are always converted to 48 kHz.
[96 KHz]: The audio signals are output in their original format.

DRC (Dynamic Range Control) – Make the sound clear when the volume is turned down (Dolby Digital only). Set to [On] for this effect.

Vocal – Set to [On] only when a multi-channel karaoke DVD is playing. The karaoke channels on the disc mix into normal stereo sound.

Adjust the lock settings

You must set the [Area Code] option to use the lock options. Select [Area Code] option then press ►. Enter a 4-digit password then press **ENTER**. Enter it again then press **ENTER** to verify. If you make a mistake while entering number, press **CLEAR** then correct it.
If you forget your password you can reset it. Display setup menu then input the 6-digit number “210499”. The “P CLr” will appear in the display window and the password is deleted.

Rating – Select a rating level. The lower the level, the stricter the rating. Select [Unlock] to deactivate the rating.

Password – Sets or changes the password for lock settings.
[New]: Enter a new 4-digit password using the numerical buttons then press **ENTER**. Enter the password again to confirm.
[Change]: Enter the new password twice after entering the current password.

Area Code – Select a code for a geographic area as the playback rating level. This determines which area’s standards are used to rate DVDs controlled by the parental lock. (See page 14)

Adjust the others settings

B.L.E. (Black Level Expansion) – To select the black level of playback pictures. Set your preference and monitor’s ability.

Displaying Disc Information

	ON REMOTE
1 Press DISPLAY:	**DISPLAY**
2 Select a item:	**▲▼**
3 Adjust the Display menu settings:	**◄ ► / ENTER**
4 To return the exit:	**DISPLAY**

Displaying Disc Information - more you can do

You can select an item by pressing ▲▼ and change or select the setting by pressing ◄ ►.

Current title (or track) number/total number of titles (or tracks)

Current chapter number/total number of chapters

Elapsed playing time

Selected audio language or channel

Selected subtitle

Selected angle/total number of angles

Symbol Used in this Manual

ALL	All discs and file listed below	ACD	Audio CDs
DVD	DVD and finalized DVD±R/RW	CD-G	CD-G discs
MP3	MP3 files	WMA	WMA files
MPEG4	MPEG4 files		

Playing a Disc

	ON REMOTE
1 Open the disc tray:	⏏ OPEN/CLOSE
2 Insert a Disc:	-
3 Close the disc tray:	⏏ OPEN/CLOSE
4 Start playback:	► PLAY
5 To stop playback:	■ STOP

Playing a Disc - more you can do

Stops the playback

The unit records the stopped point depending on the disc. " ❚❚■ " appears on the screen briefly. Press **PLAY (►)** to resume playback (from the scene point). If you press **STOP (■)** again or unload the disc (" ■ " appears on the screen), the unit will clear the stopped point.
(❚❚■ =Resume Stop, ■ =Complete Stop) The resume point may be cleared when a button is pressed (for example :POWER, OPEN/CLOSE, etc).

Playing a DVD that has a menu DVD

Most DVD's now have menus which load first before the film begins to play. You can navigate these menus using ▲▼ ◄ ► or number button to highlight an option. Press **ENTER** to select.

Playing a DVD VR disc

This unit will play DVD-RW disc that is recorded using the Video Recording (VR) format. When you insert a disc a DVD VR disc, the menu will appear on the screen. Use ▲▼ to select a title then press **PLAY (►)**. To display DVD-VR menu, press **DVD MENU** or **TITLE**.
Some DVD-VR discs are made with CPRM data by DVD RECORDER. Player does not support these kinds of discs.

Skip to the next/previous chapter/track ALL

Press **SKIP (►►I)** to move to the next chapter/track.
Press **SKIP (I◄◄)** to return to the beginning of the current chapter/track.
Press **SKIP (I◄◄)** twice briefly to step back to the previous chapter/track.

Pause a playback ALL

Press **PAUSE/STEP (❚❚)** to pause playback. Press **PLAY (►)** to continue playback.

Frame-by-Frame playback DVD

Press **PAUSE/STEP (❚❚)** repeatedly to play Frame-by-Frame playback.

Playing repeatedly ALL

Press **REPEAT** repeatedly to select an item to be repeated. The current title, chapter or track will be played back repeatedly. To return to normal playback, press **REPEAT** repeatedly to select [Off].

Fast forward or fast reverse
DVD ACD WMA MP3

Press **SCAN (◄◄ or ►►)** to play fast forward or fast reverse during playback. You can change the various playback speed by pressing **SCAN (◄◄ or ►►)** repeatedly. Press **PLAY (►)** to continue play at normal speed.

Repeating a specific portion (A-B) DVD ACD

Press **A-B** at the beginning of the portion you wish to repeat and again at the end of the portion. Your selected portion will be repeated continually.
To return to normal playback, press **A-B** to select [Off].

Selecting a subtitle language DVD

During playback, press **SUBTITLE (💬)** repeatedly to select a desired subtitle language.

Watching from a different angle DVD

If the angle indicator appears on the screen for a moment, you can select a different camera angle by pressing **ANGLE (📷)** repeatedly.

Hearing a different audio DVD CD-G

During playback, press **AUDIO (🔊)** repeatedly to switch between the available audio languages, channels or encoding methods.

Slow down the playing speed DVD

While playback is paused, press **SCAN (◄◄ or ►►)** to slow down, reverse or forward playback. You can change the various playback speed by pressing **SCAN (◄◄ or ►►)** repeatedly. Press **PLAY (►)** to continue play at normal speed.

Watching a enlarged video image DVD

During playback or pause mode, press **ZOOM** repeatedly to select zoom mode. You can move through the zoomed picture using ▲▼◄ ► buttons. Press **CLEAR** to exit.

Viewing the title menu DVD

Press **TITLE** to display the disc's title menu, if available.

Viewing the DVD menu DVD

Press **DVD MENU** to display the disc menu, if available.

Marking a favourite scene DVD

You can mark positions by pressing **MARKER** at the desired position up to 9 markers. Also you can recall or clear positions by pressing **SEARCH**.
Use ◄ or ► to select a desired marker on the [MARKER SEARCH] menu, then press **ENTER** to recall it or **CLEAR** to clear it.

Starting play from selected time DVD

Searches for the starting point of entered time code. Press **DISPLAY** then select clock icon. Enter a time then press **ENTER**. For example, to find a scene at 1 hours, 10 minutes, and 20 seconds, enter "11020" and press **ENTER**. If you enter the wrong number, press **CLEAR** to enter again.

Last Scene Memory DVD ACD

This unit memorizes last scene from the last disc that is viewed. The last scene remains in memory even if you remove the disc from the player or switch off the unit. If you load a disc that has the scene memorized, the scene is automatically recalled.

Screen Saver

The screen saver appears when you leave the unit in Stop mode for about five minutes. If the Screen Saver is displayed for five minutes, the unit automatically turns itself off.

Mixed disc – MP3/WMA and JPEG

When playing a disc containing MPEG4, MP3/WMA and JPEG files together, you can select which menu of files you would like to play by pressing **TITLE**.

Listening to Music Disc or files

	ON REMOTE
1 Open the disc tray:	⏏ OPEN/CLOSE
2 Insert a disc:	-
3 Close the disc tray:	⏏ OPEN/CLOSE
4 Select a music from the menu:	▲▼, DVD MENU
5 Start playback:	► PLAY
6 To stop playback:	■ STOP

Listening to Music Disc or files - more you can do

Creating your own program

You can play the contents of a disc in the order you want by arranging the order of the music titles on the disc. To add music on the program list, press **PROGRAM** to enter the program edit mode (mark appears on the menu). Select a desired music on the [List] then press **ENTER** to add the music to the program list. Select music from the program list then press **ENTER** to start programed playback. To clear music from the program list, select the music you want to clear then press **CLEAR** in program edit mode. To clear all music from the program list, select [Clear All] then press **ENTER** in program edit mode. The program is cleared when the disc is removed or the unit is turned off.

Playing an CD-G disc

Once you insert an CD-G disc, a menu appears on the screen. Use ▲▼ to select a track then press **PLAY (►)**. To display the CD-G menu during playback, press **STOP (■)** twice.
You can display the setup menu by pressing **SETUP** only when CD-G menu appears on the TV screen.

Displaying file information (ID3 TAG)

While playing a MP3 file containing file information, you can display the information by pressing **DISPLAY** repeatedly.

MP3/WMA music file requirement

MP3/WMA compatibility with this unit is limited as follows:
- File extensions: ".mp3", ".wma"
- Sampling frequency: within 8 - 48 kHz (MP3), within 22 - 48kHz (WMA)
- Bit rate: within 8 - 320kbps (MP3), within 32 - 256kbps (WMA)
- CD-R/RW, DVD±R/RW Format: ISO 9660
- Maximum Files/Disc: Less than 650 (total number of files and folders)

Viewing photo files

	ON REMOTE
1 Open the disc tray:	⏏ OPEN/CLOSE
2 Insert a disc:	-
3 Close the disc tray:	⏏ OPEN/CLOSE
4 Select a photo file on the menu:	▲▼, DVD MENU
5 Display the selected file in full screen:	► PLAY
6 To return to the menu:	■ STOP

Viewing photo files - more you can do

Viewing photo files as a slide show

Use ▲▼ ◄ ► to highlight ( ) icon then press **ENTER** to start slide show.
You can change slide show speed using ◄ ► when ( ) icon is highlighted.

Skip to the next/previous photo

Press **SKIP (I◄◄** or **►►I)** to view the previous/next photo.

Rotate a photo

Use ▲▼ to rotate the photo in full screen counter clockwise or clockwise while viewing a photo in full screen.

Pause a slide show

Press **PAUSE/STEP (❚❚)** to pause a slide show. Press **PLAY (►)** to continue the slide show.

Listening to music during slide show

You can listen to music during slide show, if the disc contain music and photo files together. Use ▲▼ ◄ ► to highlight ( ) icon then press **ENTER** to start slide show.

Watching a enlarged photo image

While viewing a photo in full screen, press **ZOOM** repeatedly to select zoom mode. You can move through the zoomed photo using ▲▼◄ ► buttons.
Press **CLEAR** to exit.

Photo file requirement

JPEG file compatibility with this unit is limited as follows:
- File extensions: ".jpg"
- Photo size: Less than 5M recommended
- CD-R/RW, DVD±R/RW Format: ISO 9660
- Maximum Files/Disc: Less than 650 (total number of files and folders)

Language Codes

Use this list to input your desired language for the following initial settings: Disc Audio, Disc Subtitle, Disc Menu.

Language	Code	Language	Code	Language	Code	Language	Code	Language	Code	Language	Code
Afar	6565	Croatian	7282	Hausa	7265	Lingala	7678	Quechua	8185	Tajik	8471
Afrikaans	6570	Czech	6783	Hebrew	7387	Lithuanian	7684	Rhaeto-Romance	8277	Tamil	8465
Albanian	8381	Danish	6865	Hindi	7273	Macedonian	7775	Rumanian	8279	Telugu	8469
Ameharic	6577	Dutch	7876	Hungarian	7285	Malagasy	7771	Russian	8285	Thai	8472
Arabic	6582	English	6978	Icelandic	7383	Malay	7783	Samoan	8377	Tonga	8479
Armenian	7289	Esperanto	6979	Indonesian	7378	Malayalam	7776	Sanskrit	8365	Turkish	8482
Assamese	6583	Estonian	6984	Interlingua	7365	Maori	7773	Scots Gaelic	7168	Turkmen	8475
Aymara	6588	Faroese	7079	Irish	7165	Marathi	7782	Serbian	8382	Twi	8487
Azerbaijani	6590	Fiji	7074	Italian	7384	Moldavian	7779	Serbo-Croatian	8372	Ukrainian	8575
Bashkir	6665	Finnish	7073	Javanese	7487	Mongolian	7778	Shona	8378	Urdu	8582
Basque	6985	French	7082	Kannada	7578	Nauru	7865	Sindhi	8368	Uzbek	8590
Bengali; Bangla	6678	Frisian	7089	Kashmiri	7583	Nepali	7869	Singhalese	8373	Vietnamese	8673
Bhutani	6890	Galician	7176	Kazakh	7575	Norwegian	7879	Slovak	8375	Volapük	8679
Bihari	6672	Georgian	7565	Kirghiz	7589	Oriya	7982	Slovenian	8376	Welsh	6789
Breton	6682	German	6869	Korean	7579	Panjabi	8065	Spanish	6983	Wolof	8779
Bulgarian	6671	Greek	6976	Kurdish	7585	Pashto, Pushto	8083	Sudanese	8385	Xhosa	8872
Burmese	7789	Greenlandic	7576	Laothian	7679	Persian	7065	Swahili	8387	Yiddish	7473
Byelorussian	6669	Guarani	7178	Latin	7665	Polish	8076	Swedish	8386	Yoruba	8979
Chinese	9072	Gujarati	7185	Latvian, Lettish	7686	Portuguese	8084	Tagalog	8476	Zulu	9085

Area Codes

Choose a area code from this list.

Area	Code	Area	Code	Area	Code	Area	Code	Area	Code	Area	Code
Afghanistan	AF	Costa Rica	CR	Greenland	GL	Maldives	MV	Paraguay	PY	Sri Lanka	LK
Argentina	AR	Croatia	HR	Hong Kong	HK	Mexico	MX	Philippines	PH	Sweden	SE
Australia	AU	Czech Republic	CZ	Hungary	HU	Monaco	MC	Poland	PL	Switzerland	CH
Austria	AT	Denmark	DK	India	IN	Mongolia	MN	Portugal	PT	Taiwan	TW
Belgium	BE	Ecuador	EC	Indonesia	ID	Morocco	MA	Romania	RO	Thailand	TH
Bhutan	BT	Egypt	EG	Israel	IL	Nepal	NP	Russian Federation	RU	Turkey	TR
Bolivia	BO	El Salvador	SV	Italy	IT	Netherlands	NL	Saudi Arabia	SA	Uganda	UG
Brazil	BR	Ethiopia	ET	Jamaica	JM	Netherlands Antilles	AN	Senegal	SN	Ukraine	UA
Cambodia	KH	Fiji	FJ	Japan	JP	New Zealand	NZ	Singapore	SG	United States	US
Canada	CA	Finland	FI	Kenya	KE	Nigeria	NG	Slovak Republic	SK	Uruguay	UY
Chile	CL	France	FR	Kuwait	KW	Norway	NO	Slovenia	SI	Uzbekistan	UZ
China	CN	Germany	DE	Libya	LY	Oman	OM	South Africa	ZA	Vietnam	VN
Colombia	CO	Great Britain	GB	Luxembourg	LU	Pakistan	PK	South Korea	KR	Zimbabwe	ZW
Congo	CG	Greece	GR	Malaysia	MY	Panama	PA	Spain	ES		

Troubleshooting

Symptom	Cause	Correction
No power.	The power cord is disconnected.	Plug the power cord into the wall outlet securely.
The power is on, but the unit does not work.	No disc is inserted.	Insert a disc.
No picture.	The TV is not set to receive the signal from the unit.	Select the appropriate video input mode on the TV.
	The video cable is not connected securely.	Connect the video cable securely.
No sound.	The equipment connected with the audio cable is not set to receive the signal from the unit.	Select the correct input mode of the audio amplifier.
	The AUDIO options are set to the wrong position.	Set the AUDIO settings to the correct position.
The unit does not start playback.	An unplayable disc is inserted.	Insert a playable disc. (Check the disc type and regional code.)
	The rating level is set.	Change the rating level.
The remote control does not work properly.	The remote control is not pointed at the remote sensor on the unit.	Point the remote control at the remote sensor of the unit.
	The remote control is too far from the unit.	Operate the remote control closer to the unit.

Specifications

General

Power requirements	AC 120 V~60 Hz
Power consumption	9W
Dimensions (Approx.)	430 x 35 x 200 mm (W x H x D) without foot
Net Weight (Approx.)	1.5 kg
Operating temperature	5 °C to 35 °C
Operating humidity	5 % to 90 %
Laser	Semiconductor laser
Signal system	NTSC

Outputs

Video Output	1.0 V (p-p), 75 Ω, sync negative, RCA jack (L, R) x 1
Component Video Output	(Y) 1.0 V (p-p), 75 Ω, sync negative, RCA jack x 1 (Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack x 2
S-Video Output	(Y) 1.0 V (p-p), 75 Ω, sync negative, Mini DIN 4-pinX1 (C) 0.3 V, 75 Ω
HDMI Video/Audio Output	19 pin(HDMI standard, Type A)
Audio Output	2.0 Vrms (1 KHz, 0 dB), 600 Ω, RCA jack (L, R) x 1
Digital Output (Optical)	3 V (p-p), Optical jack x 1
Digital Output (Coaxial)	0.5 V (p-p), 75 Ω, RCA jack x 1

Accessories

Video/Audio cable, Remote Control, Battery

Designs and specifications are subject to change without prior notice.

Zenith Electronics, Inc. Limited Warranty - USA

This Zenith Electronics product, will be repaired or replaced, at Zenith's option, if it proves to be defective in material or workmanship, under normal use, during the warranty period ("Warranty Period") listed below, effective from the date ("Date of Purchase") of original consumer purchase of the product. This warranty is good only to the original purchaser of the product and effective only when used in the United States, excluding U.S. Territories.

WARRANTY PERIOD:	**HOW SERVICE IS HANDLED:**
LABOR: 90 days from the Date of Purchase. **PARTS: One Year** from the Date of Purchase. * Parts replaced are warranted for the remaining portion of the original warranty period.	**Call 1-877-9-ZENITH** for instructions on getting the defective unit repaired or replaced. **Please retain dated sales receipt and your box** to return the unit to Zenith for repair or replacement. Shipping both ways will be paid by Zenith during the first 90 days of the Warranty Period. During the remainder of the Warranty Period (91~365 days), you pay inbound shipping charges and Zenith pays return shipping charges. Visit our website at: http://www.zenithservice.com

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THIS LIMITED WARRANTY DOES NOT APPLY TO:

- Damages or operating problems that result from shipping, installation, adjustment of user controls, calibration, maintenance or failure to maintain, or separate system components; and
- Damages or operating problems that result from normal wear and tear, misuse, abuse, operation outside environmental specifications or contrary to the requirements or precautions in the Operating Guide, accident, lightning strikes or other natural causes, unauthorized modification or alteration, incorrect electrical current or voltage, signal reception or input, software not licensed directly by Zenith, software errors that do not disable functionality, operating and software protocols adopted after the date of manufacture or for outside the US, institutional or commercial use, or other causes not arising out of defect in material or workmanship.

The cost of repair or replacement under these excluded circumstances shall be borne by the consumer.

CUSTOMER INTER-ACTIVE CENTER NUMBERS:

For Warranty Service, Where to buy, Product Assistance, or Customer Assistance	**Call 1-877-9-ZENITH** (24 hours a day, 365 days per year) and select appropriate options from the menu. Or visit our website at **http://www.zenithservice.com**

LG ELECTRONICS U.S.A., INC.
1000 SYLVAN AVENUE
ENGLEWOOD CLIFFS, NJ

Printed in China
Issue O